

IN THE CLAIMS

Claim 1 has been amended as follows:

1. (Currently amended) An X-ray apparatus comprising:
an x-ray imaging system comprising a carrier support with an x-ray source
and a radiation detector mounted thereon at respective positions
allowing an examination subject to be disposed between the x-ray
source and the radiation detector;
a supporting arrangement for said carrier support for moving said carrier
support relative to the examination subject for acquiring a series of 2D
projections of the examination subject with the x-ray source and the
radiation detector;
an optical 3D sensor mounted to said carrier support; and
said supporting arrangement for said carrier support also moving said carrier
support relative to said examination subject ~~for acquiring an~~ to acquire
a 3D height image dataset with said optical 3D sensor representing at
least a portion of a surface of the examination subject.

2. (Original) An X-ray apparatus as claimed in claim 1, wherein said
carrier support is a C-arm.

3. (Original) An X-ray apparatus as claimed in claim 2, wherein said
C-arm has a circumference, and wherein said supporting arrangement moves said
C-arm along said circumference during acquisition of said series of 2D projections.

4. (Original) An X-ray apparatus as claimed in claim 2, wherein said
supporting arrangement moves said C-arm through an angulation movement for
acquiring said series of 2D projections.

5. (Original) An X-ray apparatus as claimed in claim 2 wherein said C-arm and said supporting arrangement form an isocentric apparatus.

Claim 6 has been amended as follows:

6. (Currently amended) An X-ray apparatus as claimed in claim 1 comprising a computer supplied with said series of 2D projections for calculating a volume dataset of the body of the examination subject, and for combining said 3D height image dataset with said volume dataset by a combination procedure selected from the group consisting of fusing and superimposing.

Claim 7 has been amended as follows:

7. (Currently amended) A method comprising the steps of:
disposing an examination subject in an x-ray imaging system comprising a carrier support with an x-ray source and a radiation detector mounted thereon at respective positions allowing the examination subject to be disposed between the x-ray source and the radiation detector;
moving said carrier support relative to the examination subject for acquiring a series of 2D projections of the examination subject with the x-ray source and the radiation detector; and
with an optical 3D sensor mounted to said carrier support, also moving said carrier support relative to said examination subject ~~for~~ and acquiring an a 3D height image dataset with said optical 3D sensor representing at least a portion of a surface of the examination subject.

8. (Original) A method as claimed in claim 7, comprising employing a C-arm as said carrier support.

9. (Original) A method as claimed in claim 8, wherein said C-arm has a circumference, and comprising moving said C-arm along said circumference during acquisition of said series of 2D projections.

10. (Original) A method as claimed in claim 8, comprising moving said C-arm through an angulation movement for acquiring said series of 2D projections.

11. (Original) A method as claimed in claim 8 wherein said C-arm and said supporting arrangement form an isocentric apparatus.

Claim 12 has been amended as follows:

12. (Currently amended) A method as claimed in claim 7 comprising supplying a computer with said series of 2D projections and, in said computer, calculating a volume dataset of the body of the examination subject, and for combining said 3D height image dataset with said volume dataset by a combination procedure selected from the group consisting of fusing and superimposing.